

## **2005 Vermont Guidelines for Energy Efficient Commercial Construction**

### **Errata #1 for First Printing Edition**

**Issued June 2006**

The following modifications are made pursuant to 21. V.S.A. § 268, (a) Definitions. For Purposes of this subchapter, “commercial buildings: means all buildings that are not residential buildings or farm structures as defined in 24 V.S.A. § 4413.”

#### **CHAPTER 1 – ADMINISTRATION AND ENFORCEMENT**

##### **Page 1**

##### **101.5.2 Low energy buildings:**

**Delete** - “3. Greenhouses. Structures used exclusively for nonretail horticulture purposes and applications that do not use mechanical or artificial illumination.”

**Delete** - “4. Barns. Structures for the purposes of housing, maintaining, controlling and processing (such as milking and shearing) animals and storage of hay and other field products. Barns in this definition are not intended for occupancy by humans or for day-long occupancy of humans to perform their applicable duties.”

**Add** – “**101.5.4 Farm Structures.** This code shall not apply to farm structures as defined in 24 V.S.A. § 4413.”

#### **CHAPTER 2 – DEFINITIONS**

##### **Page 6**

**Delete** – “Greenhouse. An enclosed detached or attached accessory structure consisting primarily of light transmitting materials and used exclusively for growing plants.”

**Add** – “**FARMING.** The cultivation or other use of land for growing food, fiber, Christmas trees, maple sap, or horticultural and orchard crops; or the raising, feeding, or management of livestock, poultry, fish, or bees; or the operation of greenhouses; or the production of maple syrup; or the on-site storage, preparation and sale of agricultural products principally produced on the farm; or the on-site production of fuel or power from agricultural products or wastes produced on the farm; or the raising, feeding, or management of four or more equines owned or boarded by the farmer, including training, showing, and providing instruction and lessons in riding, training, and the management of equines.”

**Add** – “**FARM STRUCTURE.** A building, enclosure, or fence for housing livestock, raising horticultural or agronomic plants, or carrying out other practices associated with accepted agricultural or farming practices, including a silo, as “farming” is defined, but excludes a dwelling for human habitation.”

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Issued June 2006

The following modifications are made pursuant to the National Appliance Energy Conservation Act of 1987 (NAECA). Single-phase air-cooled air conditioners < 65,000 Btu/h SEER values are those set by NAECA. Single-phase air-cooled heat pumps < 65,000 Btu/h SEER and HSPF values are those set by NAECA.

## CHAPTER 8 – BUILDING DESIGN FOR COMMERCIAL BUILDINGS

### Page 19

Minimum Efficiency for single-phase air-cooled air conditioners < 65,000 Btu/h SEER is changed from 12.0 to 13.0 SEER.

Table 803.2.2(1) UNITARY AIR CONDITIONERS AND CONDENSING UNITS ELECTRICALLY OPERATED, MINIMUM EFFICIENCY REQUIREMENTS				
EQUIPMENT TYPE	SIZE CATEGORY	SUBCATEGORY OR RATING CONDITION	MINIMUM EFFICIENCY	TEST PROCEDURE
Air conditioners, Air cooled	< 65,000 Btu/h	Split system	13.0 SEER	ARI 210/240
		Single package	13.0 SEER	

### Page 20

Minimum Efficiency for single-phase air-cooled heat pumps < 65,000 Btu/h SEER is changed from 12.0 to 13.0 SEER, and HSPF is changed from 7.4 to 7.7 HSPF.

Table 803.2.2(2) UNITARY AND APPLIED HEAT PUMPS ELECTRICALLY OPERATED, MINIMUM EFFICIENCY REQUIREMENTS				
EQUIPMENT TYPE	SIZE CATEGORY	SUBCATEGORY OR RATING CONDITION	MINIMUM EFFICIENCY	TEST PROCEDURE
Air cooled (Cooling mode)	< 65,000 Btu/h	Split system	13.0 SEER	ARI 210/240
		Single package	13.0 SEER	
Air cooled (Heating mode)	< 65,000 Btu/h (cooling capacity)	Split system	7.7 HSPF	ARI 210/240
		Single package	7.7 HSPF	

## **2005 Vermont Guidelines for Energy Efficient Commercial Construction**

### **Errata #2 for First and Second Printing Edition**

**Issued November 2006**

The following modification is made to ensure the minimum R-values for added insulation meet the maximum overall factor for the entire assembly of U-0.064 for walls above grade that are wood framed or other.

## **CHAPTER 8 – BUILDING DESIGN FOR COMMERCIAL BUILDINGS**

### **Page 15**

Minimum R-values for added insulation for the R-7.5 ci option has been changed to R-12 ci

**TABLE 802-2(1)**  
**BUILDING ENVELOPE REQUIREMENTS – OPAQUE ELEMENTS**

	<b>Maximum Overall Factor for Entire Assembly</b>	<b>Minimum R-values are for Added Insulation</b>
<b>Wall, Above Grade</b>		
Wood framed and other	U – 0.064	R-19 or R-12 ci or R-13 + R-3.8 ci